RED HAT® JBOSS®
MIDDLEWARE

OPTIMIZING HEALTHCARE

Shifting from volume to value

SOLUTION BRIEF

Intel and Red Hat are leaders in building open IT infrastructure that meets the increasingly complex requirements of the healthcare industry.

"Pulling all that data from disparate sources, and making sense of it, requires sophisticated systems that can work much more quickly and efficiently than any human."

TECHNOLOGY'S CURE FOR MANAGING HEALTHCARE RISK, INTEL

Learn more: redhat.com/en/technologies/industries/health-life-sciences.

PATIENT-CENTRIC HEALTHCARE OPPORTUNITIES

More and more organizations in the healthcare industry are moving away from a fee-for-service model to a value-based reimbursement model. This new patient-centric approach is driving a significant shift in healthcare technology requirements.

To make value-based care work, IT infrastructure must be able to connect healthcare data across the continuum of care—from patient to provider to payer, and sometimes beyond. Improving patient outcomes requires aggregating massive amounts of data from different sources, normalizing it, analyzing it, and applying it to make outcome-focused decisions.

INTEROPERABILITY EVERYWHERE

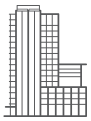
Healthcare organizations must support the demands of the value-based care model by providing interoperability, data access, and integration with the Internet of Things (IoT) to bring information together. With an open IT infrastructure based on Intel® and Red Hat® technologies, healthcare organizations can collect and analyze large volumes of data—from wearable devices, mobile systems, electronic health records, diagnostic machines, various providers, and more—while delivering data back into core systems to support better care decisions.

DATA INTEGRATION AND ACCESS

Providers and payers rely on different applications and processes to support their respective organizations. Value-based care models, however, require a shared focus. IT teams must integrate these separate technologies so that organizations can share critical information and manage health with a more holistic approach.

The Red Hat JBoss® Middleware portfolio of products streamlines the interconnection of healthcare solutions and helps collect and normalize health data:

- Automate processes across the healthcare ecosystem, reducing the need for manual IT staff intervention, with Red Hat JBoss BPM Suite, which combines key technologies: business process management, business rules management, and complex event processing.
- Treat multiple data sources as a single source, delivering the needed data—in whatever form required—to any application or user with Red Hat JBoss Data Virtualization, a data supply and integration solution.
- Easily connect disparate applications, services, or devices in real time, with support for healthcare-specific transaction sets such as Health Level-7 and others, with Red Hat JBoss Fuse, an open source and lightweight enterprise integration platform.
- Connect independent systems and allow them to share information safely with Red Hat 3scale API Management Platform, which provides a secure mode of collaboration through application programming interfaces (APIs).



ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

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UNIFIED DATA STORAGE

Healthcare data takes many different forms—as text, images, or even sound and video. Unfortunately, the associated storage is often scattered and duplicated in a healthcare organization, with separate storage for specific vendors or types of data. The Red Hat Storage portfolio is an open, low-cost, data- and vendor-agnostic, software-defined storage platform that scales across physical, virtual, and cloud resources to support the growing data volume in value-based care models.

MOBILE APPLICATIONS

Value-based care models typically expand the number of healthcare stakeholders from members, patients, and advocates to also include providers, insurers, care managers, and even employers or purchasers. To make healthcare data more easily accessible, many healthcare organizations are turning to mobile applications and devices. Red Hat Mobile Application Platform accelerates the development, integration, management, and deployment of mobile healthcare solutions, using a Mobile Backend-as-a-Service (MBaaS) approach, which relieves many of the privacy and security burdens associated with mobile solutions. It also fosters collaborative development across multiple teams and projects, with a wide variety of leading toolkits and frameworks.

OPEN SOURCE FOR HEALTHCARE

Using open source technology to support value-based care provides security, reliability, and high performance at lower costs than proprietary solutions. The proven community-based development model for open source technology enlists contributions from hundreds of thousands of developers around the world to deliver innovative solutions for the healthcare industry.

Red Hat's cost-effective, open, and agile technologies include operating system, cloud, middleware, automation, and mobile solutions that support the IoT. Intel architecture provides a solid framework of compute, networking, storage, and security components for running Red Hat solutions.

New Intel Xeon® Scalable processors are workload-optimized to support hybrid cloud infrastructures and the most high-demand applications. Platforms built on these latest-generation processors can deliver 4.2 times greater virtualized workload throughput to reduce the total cost of ownership (TCO) by up to 65%.*

Collaborative work between Intel and Red Hat has produced enhanced cloud-based software, network management applications, and virtualization components that together facilitate the next generation of healthcare technologies.

* Up to 65% lower four-year TCO estimate example based on equivalent rack performance using VMware ESXi virtualized consolidation workload comparing 20 installed two-socket servers with Intel Xeon processor E5-2690 (formerly Sandy Bridge-EP) running VMware ESXi 6.0 GA using guest OS Red Hat Enterprise Linux® 6.4 compared at a total cost of $919,362 to five new Intel Xeon Platinum 8180 (Skylake) running VMware ESXi 6.0 U3 GA using guest OS Red Hat Enterprise Linux 6 64-bit at a total cost of $320,879 including basic acquisition. Server pricing assumptions based on current OEM retail published pricing for two-socket server with Intel Xeon processor E5-2690 v4 and two CPUs in four-socket server using E7-8890 v4—subject to change based on actual pricing of systems offered.

ABOUT INTEL

Intel (NASDAQ: INTC) is a world leader in computing innovation. The company designs and builds the essential technologies that serve as the foundation for the world's computing devices. For more information, visit us at intel.com/healthcare.